10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Ddr2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP14616b

Specification

Mouse Ddr2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q62371

Mouse Ddr2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 18214

Other Names
Discoidin domain-containing receptor 2, Discoidin domain receptor 2, CD167 antigen-like family member B, Neurotrophic tyrosine kinase, receptor-related 3, Receptor protein-tyrosine kinase TKT, Tyrosine-protein kinase TYRO10, CD167b, Ddr2, Ntrkr3, Tkt, Tyro10

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Ddr2 Antibody (C-term) Blocking Peptide - Protein Information

Name Ddr2

Synonyms Ntrkr3, Tkt, Tyro10

Function
Tyrosine kinase that functions as a cell surface receptor for fibrillar collagen and regulates cell differentiation, remodeling of the extracellular matrix, cell migration and cell proliferation. Required for normal bone development. Regulates osteoblast differentiation and chondrocyte maturation via a signaling pathway that involves MAP kinases and leads to the activation of the transcription factor RUNX2. Regulates remodeling of the extracellular matrix by up- regulation of the collagenases MMP1, MMP2 and MMP13, and thereby facilitates cell migration and tumor cell invasion. Promotes fibroblast migration and proliferation, and thereby contributes to cutaneous wound healing.

Cellular Location
Cell membrane; Single-pass type I membrane protein

Tissue Location
Widely expressed. Detected in lung, ovary, skin and in testis Leydig cells (at protein level). Widely

expressed. Detected at high levels in heart, lung, skeletal muscle, central nervous system (CNS) and kidney, and at lower levels in brain and testis. Detected in chondrocytes in tibia growth plates of young mice

Mouse Ddr2 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Mouse Ddr2 Antibody (C-term) Blocking Peptide - Images

Mouse Ddr2 Antibody (C-term) Blocking Peptide - Background

This tyrosine kinase receptor for fibrillar collagen mediates fibroblast migration and proliferation. Contributes to cutaneous wound healing.

Mouse Ddr2 Antibody (C-term) Blocking Peptide - References

Xu, L., et al. Arthritis Rheum. 62(9):2736-2744(2010)Sivakumar, L., et al. Biomaterials 31(18):4802-4808(2010)Flynn, L.A., et al. J. Mol. Biol. 395(3):533-543(2010)Kano, K., et al. Mol. Reprod. Dev. 77(1):29-37(2010)Matsumura, H., et al. Physiol. Genomics 39(2):120-129(2009)